

Cyclin dependent kinase inhibiting drugs, useful for treating tumor cell proliferation, viral infections or neurodegenerative diseases, comprising new or known pyrazolo 1,3,5-triazine derivatives

Publication number: FR2818278

Publication date: 2002-06-21

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Applicant: SOD CONSEILS RECH APPLIC (FR)

Classification:

- international: **C07D487/04; C07D487/00;** (IPC1-7): C07D487/04;
A61K31/53; C07D231/38; C07D251/12; C07D487/04

- European: C07D487/04

Application number: FR20000016632 20001220

Priority number(s): FR20000016632 20001220

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Abstract of FR2818278

The use of 4-substituted pyrazolo (1,5-a)-1,3,5-triazine derivatives (I) as cyclin dependent kinase (CDK) inhibiting medicaments is new. Some compounds (I) are new. The use of pyrazolo-triazine derivatives of formula (I), in the form of racemates, enantiomers or their combinations, or their salts is claimed in the preparation of cyclin dependent kinase (CDK) inhibiting medicaments. A = H, halo, CHO, CN, NO₂, guanidinoaminomethylenyl, (1,3-dihydro-2-oxo-indol-3-ylidene)-methyl, alkylcarbonyl, aralkylcarbonyl, heteroaralkylcarbonyl or -L-NR₁R₂; L = alkylene; R₁, R₂ = H or alkyl; or NR₁R₂ = 5-7 membered heterocycle in which the members (other than the bonding N) are selected from CH₂, NR₃, S or O; R₃ = H or alkyl; X = H, alkylthio, aralkylthio, alkylthioxo, aralkylthioxo or NR₄R₅; R₄ = alkyl, hydroxyalkyl, cycloalkyl (optionally substituted by one or more of alkyl, OH and NH₂), aralkyl (optionally ring-substituted by one or more of halo, CN, NO₂, alkyl and alkoxy), or heteroaryl or heteroaralkyl (both optionally ring-substituted by one or more alkyl); R₅ = H; or NR₄R₅ = ring as defined for NR₁R₂ (except that R₃ can also be hydroxyalkyl); Y = NH or O; Z' = direct bond, alkyl (sic) or alkylthioalkyl (sic); Ar = carbocyclic aryl (optionally substituted by 1-3 of halo, CN, NO₂, alkyl, alkoxy or NR₇R₈); or 5- or 6-membered heteroaryl containing N, O and/or S as heteroatom(s) (optionally substituted by one or more of alkyl, aminoalkyl or mono- or dialkylaminoalkyl); R₇, R₈ = H or alkyl; or NR₇R₈ = heterocycle as defined for NR₁R₂. An Independent claim is included for (I) or their salts as new compounds, provided that if A is other than CN, NO₂ or guanidinoaminomethylenyl, then either: (i) Z' = alkyl or thioalkyl (sic); or (ii) X = NR₄R₅, in which: R₄ = 'aralkylthio, aralkylthioxo or hydroxyalkyl, one of the alkyl, alkylthio or alkylthioxo radicals having 2-5C' (sic); or cycloalkyl (optionally substituted as above), aralkyl (optionally ring-substituted by one or more of halo, alkyl and alkoxy), or heteroaryl or heteroaralkyl (both optionally ring-substituted as above); R₅ = H; or NR₄R₅ = ring as defined above.

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